

Chapter 7 Literature Cited

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Glossary

Allozyme	Form of an enzyme that differs in amino acid sequence, as shown by electrophoretic mobility or some other property, from other forms of the same enzyme and is encoded by one allele at a single locus.
Archipelagic	An expanse of water with many scattered islands.
Bathymetric	Of or relating to measurements of the depths of oceans or lakes.
Bathypelagic	A subdivision of the pelagic province lying between the water depths of one and two kilometers.
Biological Opinions	The ESA and its implementing regulations require federal agencies to consult either the U.S. Fish and Wildlife Service (FSW) or NMFS (depending on the species involved) about any agency action that may have an impact on federally listed threatened or endangered species. As an outcome of this process, the service agency (i.e., NMFS or FWS) prepares a Biological Opinion (BO), stating whether or not the action is likely to jeopardize the continued existence of a listed species. If the action is likely to jeopardize existence, then the agency must suggest reasonable and prudent alternatives to avoid the likelihood of jeopardy (16 U.S.C. 1536(b)(3)(a)). If the proposed action complies with ESA Section 7(a)(2) (16U.S.C. 1536(a)(2)), the ESA authorizes the agency to issue an incidental take statement that sets levels for incidental take of the species (animals caught incidently as part of fishing activities).
BMSY	Biomass at MSY. Biomass corresponding to Maximum Sustainable Yield from a production model or from an age-based analysis using a stock recruitment model. Often used as a biological reference point in fisheries management, it is the calculated long-term average biomass value expected if fishing at FMSY.
Brail nets	A small net used to draw fish into a boat
Bryozoans	Any of various small aquatic animals of the phylum Bryozoa that reproduce by budding and form mosslike or branching colonies permanently attached to stones or seaweed. Also called moss animal, polyzoan.

Bycatch	Fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals and birds) which are harvested in a fishery, but which are not sold or kept for personal use, and includes economic discards and regulatory discards. Such term does not include fish released alive under a recreational catch and release fishery management program.
Carapace	A bony or chitinous case or shield covering the back or part of the back of an animal (as a turtle or crab).
Catch	All target, incidental and bycatch organisms that are collected in the fishing gear. Synonymous with “harvest.”
Catch Per Unit Effort (CPUE)	The average catch taken by a defined unit of fishing effort (i.e., fishing day, number of hooks, etc.). In a longline fishery, for example, the number of big eye tuna caught per vessel per day per thousand hooks set.
Chumming	Bait usually consisting of oily fish ground up and scattered on the water.
Clutch	The number of eggs laid at any one time.
Confidence interval	A confidence interval is an interval used to estimate the likely size of a population parameter. It gives an estimated range of values (calculated from a given set of sample data) that has a specified probability of containing the parameter being estimated. Most commonly used are the 95% and 99% confidence interval that have .95 and .99 probabilities respectively of containing the parameter. The width of the confidence interval gives some indication about how uncertain we are about the unknown population parameter. Confidence intervals are more informative than the simple results of hypothesis tests (where we decide ‘reject the null hypothesis’ or ‘don’t reject the null hypothesis’) because they provide a range of plausible values for the unknown parameter.
Convergence Zone	An area where water masses come together, often with enhanced productivity.
Dehookers	Device to remove a hook from fish without handling fish.
Demersal	Sinking to or lying on the bottom; living on or near the bottom and feeding on benthic organisms.
Driftnet	A large fishing net buoyed up by floats that is carried along with the current or tide.

EEZ	200-nautical-mile zone, where coastal states have sovereign rights over natural resources and certain economic activities according to the Convention of the Law of the Sea promulgated by a UN conference in 1982.
Endangered Species Act	Enacted in 1973; provides for the conservation of endangered and threatened species of fish, wildlife and plants. The program is administered jointly by the Department of the Interior (DOI) and the Department of Commerce (DOC).
Endotherm	An organism that generates heat to maintain its body temperature, typically above the temperature of its surroundings; a homeotherm.
Environmental Assessment	A document prepared by a Federal Agency which presents a brief analysis of the environmental impacts of the proposed action and its alternatives, including sufficient evidence to determine that either: (1) an environmental impact statement is required; or (2) a finding of no significant impact should be declared (CEQ sec. 1508.9).
Epipelagic	Of or relating to the part of the oceanic zone into which enough sunlight enters for photosynthesis to take place.
Fathoms	A unit of length equal to 6 feet (1.83 meters), used principally in the measurement and specification of marine depths fishing rods.
Fibropapillomatosis	Tumor-like growths common on some sea turtles, especially green turtles.
Fishery Management Plan	A fishery management council's main responsibility is to prepare fishery management plans for "each fishery under its authority that requires conservation and management."
Fishery Management Council	Territories of American Samoa and Guam, and the Commonwealth of the Northern Mariana Islands, and members from Federal agencies. It has authority over the fisheries in the U.S. Fishery Conservation Zone in the Pacific Ocean out to 200 nautical miles from shore from the State of Hawaii, the Territories of Guam and American Samoa, the Commonwealth of Northern Mariana Islands, and possessions of the United States in the Pacific Ocean.
Geostrophic Flow	A current in the atmosphere in which Coriolis' force and the pressure gradient are in balance.
Hectocotylus	A modified arm of the male of certain cephalopods that is used to transfer sperm to the female.

Histological	Pertaining to histology, or to microscopic structure of the tissues of living organisms.
Ika shibi	Handline fishery where squid is caught and used as bait for tuna.
Isobath	Line of equal depth.
Isohaline	Line of equal salinity.
Isotherms	A line of equal or constant temperature on a graph, plot, or map
Line-shooter	Device to pay out longline faster than the vessel speed, allowing the line to sink rapidly.
Line-setter	Synonym for line-shooter.
Longline Fishing	Longline gear consists of a main line set horizontal to the ocean surface. Branch lines (gangions) are clipped to the mainline at regular intervals, and each gangion has a single baited hook. One set of gear can consist of thousands of hooks clipped to a single mainline buoyed by floats and extending across several miles of ocean. Longlining allows a vessel to distribute effort over a large area to harvest fish that are not concentrated enough in numbers to be caught by other methods, such as purse seining. The longlining technique is preferred for harvesting large, high-quality tuna for <i>sashimi</i> markets.
Mackerel scad	Small silvery fish.
Management Unit	A species or a group of fish species affected or exploited by the same fishery or fisheries.
Mark-Recapture	The tagging and releasing of fish to be recaptured later in their life cycles. These studies are used to study fish movement, migration, mortality, and growth, and to estimate population size.
Maximum Sustainable Yield	The largest long-term average catch or yield that can be taken from a stock or stock complex under prevailing ecological and environmental conditions.
Mesopelagic	Pelagic zone of intermediate depth, 200-1000m
Micronektonic	Small pelagic organisms larger than plankton.
Monofilament	A single strand of untwisted synthetic fiber, such as nylon, used especially for fishing line.

Morphometric	Measurement of external form.
National Environmental Policy Act (NEPA)	Requires that the effects of federal activities on the environment be assessed. NEPA's basic purpose is to insure that federal officials weigh and give appropriate consideration to environmental values in policy formulation, decision-making and administrative actions, and that the public is provided adequate opportunity to review and comment on the major federal actions. NEPA requires preparation of an EIS for major federal actions which significantly affect the quality of the human environment.
National Marine Fisheries Service (NMFS)	Has primary federal responsibility for the conservation, management, and development of living marine resources in federal waters and for the protection of certain marine mammals and endangered species placed under federal laws. The agency also has responsibilities to the U.S. commercial and marine recreational fishing industry, including fishers, and to the United States and the general public.
Neritic Waters	Of or relating to the pelagic area of the shallow marine environment near shore or over a continental shelf, from the low-tide mark down to a depth of about 200 meters, characterized by the abundant biotic activity fostered by photosynthesis and the mineral-rich environment.
Nidamental	Of, pertaining to, or bearing, eggs or egg capsules; as the nidament capsules of certain gastropods; nidamental glands.
Overfishing	A rate or level of fishing mortality that jeopardizes the capacity of the stock complex to produce the maximum sustainable yield on a continuing basis. MSA National Standard 1 distinguishes between "overfished" and "overfishing," and establishes respective status determination criteria.
Pelagic	Of or relating to aquatic organisms that live in the ocean, without direct dependence on the shore or bottom or on deep-sea sediment.
Petrochemicals	A chemical isolated or derived from petroleum or natural gas.
Photophore	An organ which emits light; the pattern of photophores is an important character in the identification of deep sea fishes.
Plastron	The ventral part of the shell of a tortoise or turtle consisting typically of nine symmetrically placed bones overlaid by horny plates.

Poikilotherms	An organism with a variable body temperature that is usually slightly higher than the temperature of its environment: a cold blooded organism.
Pole-and-line	A fishing method where fishers on the boat use a short fibreglass pole with a barbless lure or baited barbless hook attached to a short trace to hook and swing (pole) the targeted fish onto the boat.
Purse Seiners	A large seine designed to be set by two boats around a school of fish and so arranged that after the ends have been brought together the bottom can be closed.
Pycnocline depth	Zone of rapid change in salinity.
Scutes	An external bony or horny plate or large scale.
Seamount	A submarine mountain rising above the deep-sea floor
Statocyst	An organ of equilibrium occurring especially among invertebrate animals and consisting usually of a fluid filled vesicle in which are suspended.
Tans or poks	Sections of net which are connected together to form a larger net.